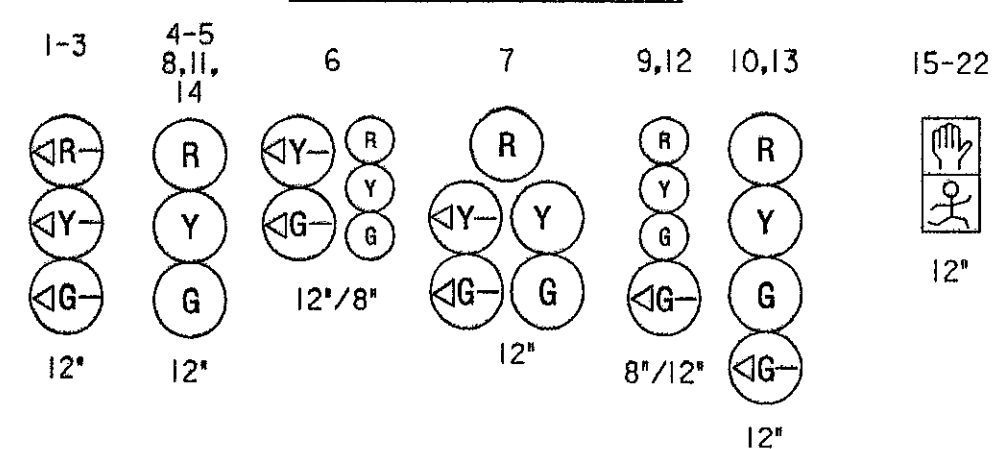


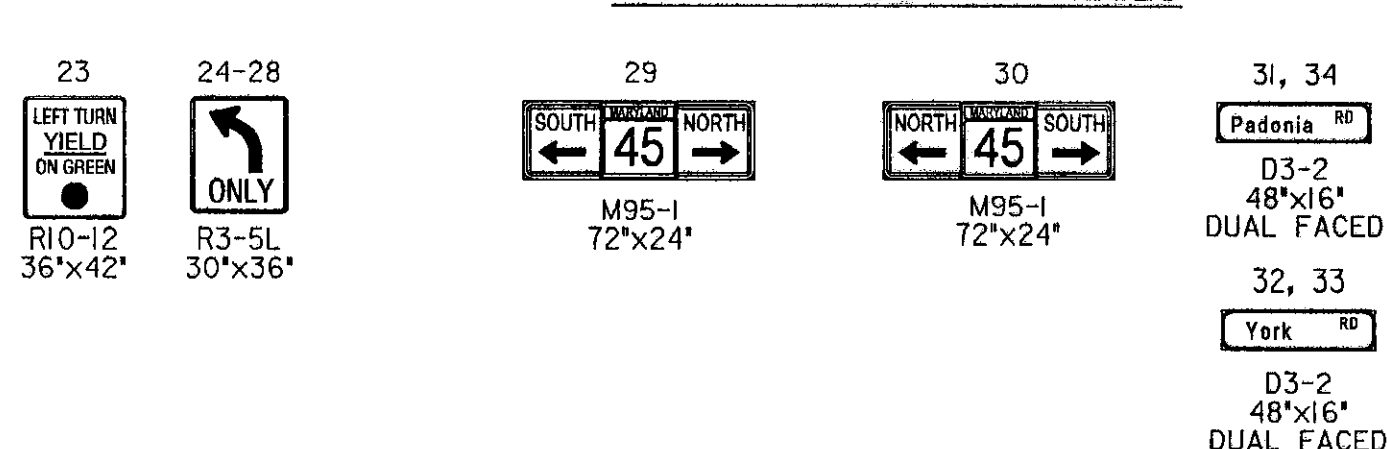
CONSTRUCTION DETAILS

- A. INSTALL NEMA SIZE "6" BASE MOUNTED CABINET, MASTER CONTROLLER WITH ALL NECESSARY EQUIPMENT, 2- WIRE NAVIGATOR CENTRAL CONTROL UNIT, AND TELEPHONE DROP (NOTE: 2-2 IN. AND 2-4 IN. 90 DEGREE BENDS)
- B. INSTALL 27 FT. STEEL POLE WITH 50 FT. MAST ARM, VEHICLE SIGNAL HEADS, 2-WIRE NAVIGATOR PUSH BUTTON STATION, PEDESTRIAN SIGNAL HEADS, SIGNS, RELOCATED VIDEO DETECTOR CAMERA (INSTALL NEW VIDEO DETECTOR CABLES AND NEW MOUNTING HARDWARE), NEW VIDEO DETECTOR CAMERA, AND A 20-FT LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE WITH PHOTOCELL (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
- C. INSTALL 27 FT. STEEL POLE (CUT TO 21 FT.) WITH 50 FT. MAST ARM, WEATHERHEAD FOR RE-ROUTED INTERCONNECT CABLE, VEHICLE SIGNAL HEADS, 2-WIRE NAVIGATOR PUSH BUTTON STATION, PEDESTRIAN SIGNAL HEADS, SIGNS, NEW VIDEO DETECTOR CAMERA, AND ELECTRICAL SERVICE EQUIPMENT (NOTE: 1-2 IN. AND 1-3 IN. PVC 90 DEGREE BENDS)
- D. INSTALL 27 FT. STEEL POLE WITH 60 FT. MAST ARM, VEHICLE SIGNAL HEADS, 2-WIRE NAVIGATOR PUSH BUTTON STATION, PEDESTRIAN SIGNAL HEADS, SIGNS, RELOCATED VIDEO DETECTOR CAMERA (INSTALL NEW VIDEO DETECTOR CABLES AND NEW MOUNTING HARDWARE), AND A 20-FT LIGHTING ARM WITH 250 WATT H.P.S. LUMINAIRE WITH PHOTOCELL (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
- E. INSTALL 27 FT. STEEL POLE (CUT TO 21 FT.) WITH 50 FT. MAST ARM, VEHICLE SIGNAL HEADS, 2-WIRE NAVIGATOR PUSH BUTTON STATION, PEDESTRIAN SIGNAL HEADS, AND SIGNS (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
- F. INSTALL 6 FT. STUB POLE (SEE STUB POLE DETAIL ON GENERAL INFORMATION SHEET) AND 2-WIRE NAVIGATOR PUSH BUTTON STATION (NOTE: 1-3 IN. PVC 90 DEGREE BEND)
- G. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED)

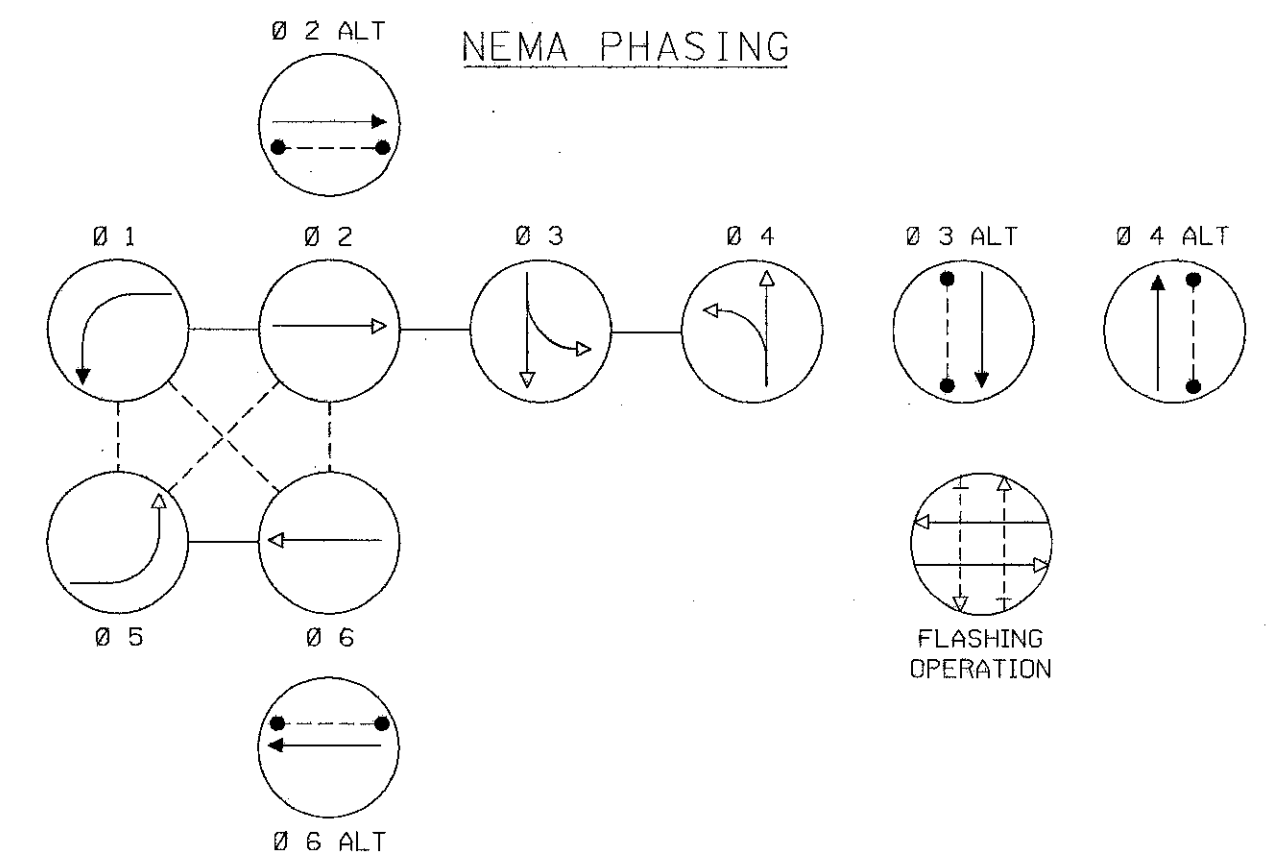
PROPOSED SIGNALS



SIGNS TO BE INSTALLED

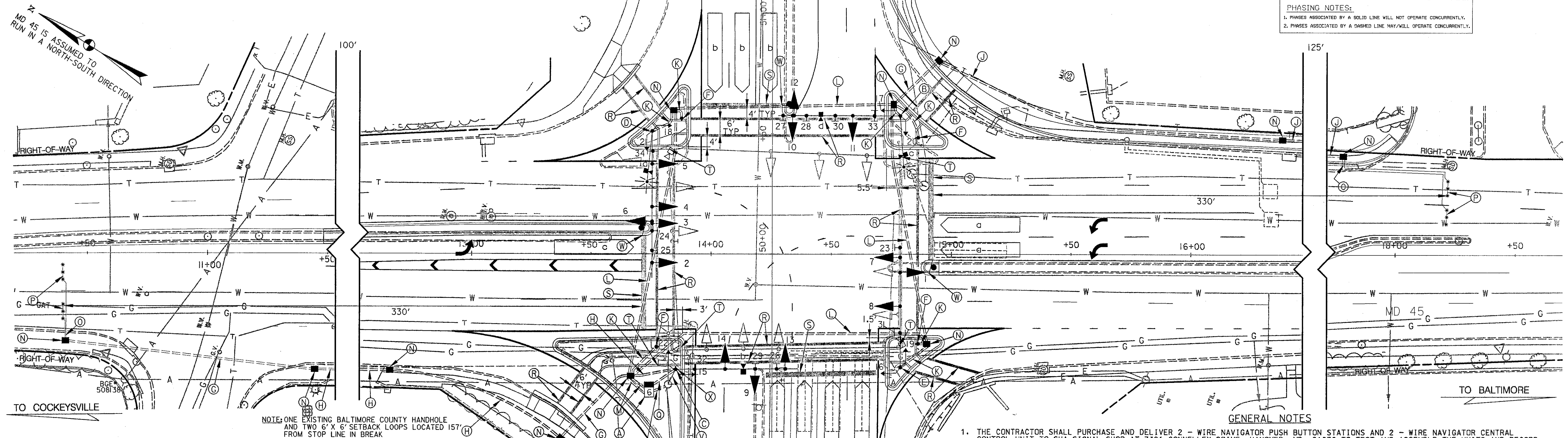


NEMA PHASING



PHASING NOTES:

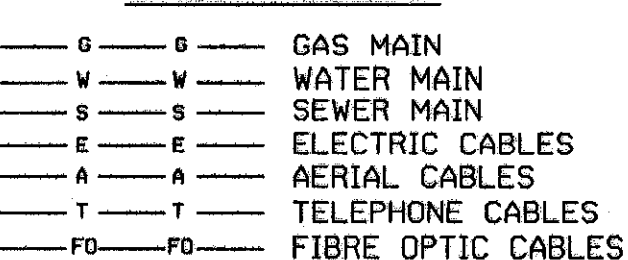
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY/WILL OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS (CONT.)

- H. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- J. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED PRIOR TO NEW SIDEWALK CONSTRUCTION)
- K. INSTALL 3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED PRIOR TO ISLAND RECONSTRUCTION)
- L. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (SLOTTED PRIOR TO ROADWAY RESURFACING)
- M. INSTALL 4 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- N. INSTALL HANDHOLE
- O. INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRIC CONDUIT (FOR DETECTOR SLEEVE)
- P. INSTALL 2 MICROLOOP PROBE SETS
- Q. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED ELECTRICAL SERVICE
- R. INSTALL 12 IN. HEAT-APPLIED WHITE THERMOPLASTIC PERMANENT PAVEMENT MARKING FOR CROSSWALK LINES
- S. INSTALL 24 IN. HEAT-APPLIED WHITE THERMOPLASTIC PERMANENT PAVEMENT MARKING FOR STOP LINE
- T. REMOVE AND DISPOSE OF EXISTING TRAFFIC SIGNAL EQUIPMENT
- U. INSTALL 2 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT (TRENCHED) FOR PROPOSED UNDERGROUND TELEPHONE SERVICE. CAP AND MARK CONDUIT AT UTILITY POLE FOR USE BY OTHERS.
- V. PROPOSED OVERHEAD ELECTRICAL SERVICE BY BALTIMORE GAS & ELECTRIC
- W. PROPOSED GROUND MOUNTED SIGN BY OTHERS
- X. ELECTRICAL SERVICE EQUIPMENT

UTILITY LEGEND



PRIMARY (+/-45'-0")
SECONDARY (36'-4")
TELEPHONE/GUY/SECONDARY (31'-4")
CABLE (20'-1")
GUY (19'-8")
CABLE (19'-3")

1. THE CONTRACTOR SHALL PURCHASE AND DELIVER 2 - WIRE NAVIGATOR PUSH BUTTON STATIONS AND 2 - WIRE NAVIGATOR CENTRAL CONTROL UNIT TO SHA SIGNAL SHOP AT 7491 CONNELLEY DRIVE, HANOVER, MD 21076 TO TEST AND ASSEMBLE THE UNITS AND RECORD AUDIBLE MESSAGE. THE CONTRACTOR SHALL CONTACT MR. ED RODENHIZER AT (410) 787-7652 AT LEAST THREE (3) DAYS IN ADVANCE OF DELIVERY.
2. THE CONDUITS SHOWN ARE TO BE INSTALLED PRIOR TO THE RESURFACING OF MD 45 AND PADONIA ROAD.
3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF NEW GEOMETRICS PRIOR TO INSTALLATION OF NEW SIGNAL EQUIPMENT.
4. WITHIN 36 IN. OF UNDERGROUND UTILITY LOCATIONS, THE CONTRACTOR SHALL BE REQUIRED TO EXCAVATE FOR FOUNDATION AND CONDUIT BY HAND. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO LOCATE GAS LINES ON THE WEST SIDE OF MD 45.
5. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS, HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS, TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
6. SEE GENERAL INFORMATION SHEET FOR POLE, SIGNAL HEAD, CAMERA, AND SIGN LOCATIONS. SEE SHEET INTERCONNECT SHEET FOR NAVIGATOR PUSH BUTTON STATION DIRECTIONS.
7. ALL EXISTING LOOP DETECTORS WILL BE ABANDONED.
8. THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL EXISTING STEEL STRAIN POLES AND SIGNAL HEADS. REMOVE ALL EXISTING SPAN MOUNTED SIGNS, AND RELOCATE ALL EXISTING VIDEO DETECTOR CAMERAS AS SHOWN ON THIS PLAN.
9. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE, EXCLUDING INTERCONNECT, TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE. THE CONTRACTOR SHALL NOTIFY THE SHA SIGNAL SHOP 72 HOURS PRIOR TO CONSTRUCTION TO COORDINATE THE DISCONNECTION AND RECONNECTION OF INTERCONNECT CABLES.
11. WHERE HANDHOLES OR CONDUIT ARE PROPOSED IN EXISTING SIDEWALK AREAS, THE SIDEWALK SHALL BE REMOVED AND REINSTALLED TO THE NEAREST JOINT. THIS WORK SHALL BE INCIDENTAL TO HANDHOLE INSTALLATION.
12. THE SIGNAL CONTRACTOR SHALL DETERMINE IF ANY WORK BY OTHER CONTRACTORS CAN NOT BE COMPLETED UNTIL INSTALLATION OF SIGNAL EQUIPMENT IS COMPLETE. THE SIGNAL CONTRACTOR SHALL NOTIFY OTHER CONTRACTORS OF THIS WORK.
13. THE SIGNAL CONTRACTOR SHALL ENSURE EXISTING TRAFFIC SIGNAL REMAINS OPERATIONAL UNTIL RECONSTRUCTED TRAFFIC SIGNAL IS OPERATIONAL. SEE SHEET NO. 2 FOR MAINTENANCE OF TRAFFIC SEQUENCE.

SP-1

STV Incorporated

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REVISIONS

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 45 (YORK RD) AT PADONIA RD
TRAFFIC SIGNALIZATION PLAN

DRAWN BY: E.L. FEIST
CHECKED BY: W.L. MELZER
SCALE: 1 IN. = 20 FT.
DATE: 7-26-63

F.A.P. NO. SEE TITLE SHEET
S.H.A. NO. TS-4310A
COUNTY: BALTIMORE
LOG MILE: 03004506.28

TS NO. TS-4310A
T.I.M.S. NO. 6075
SHEET NO. 13 OF 19